FIG. 1

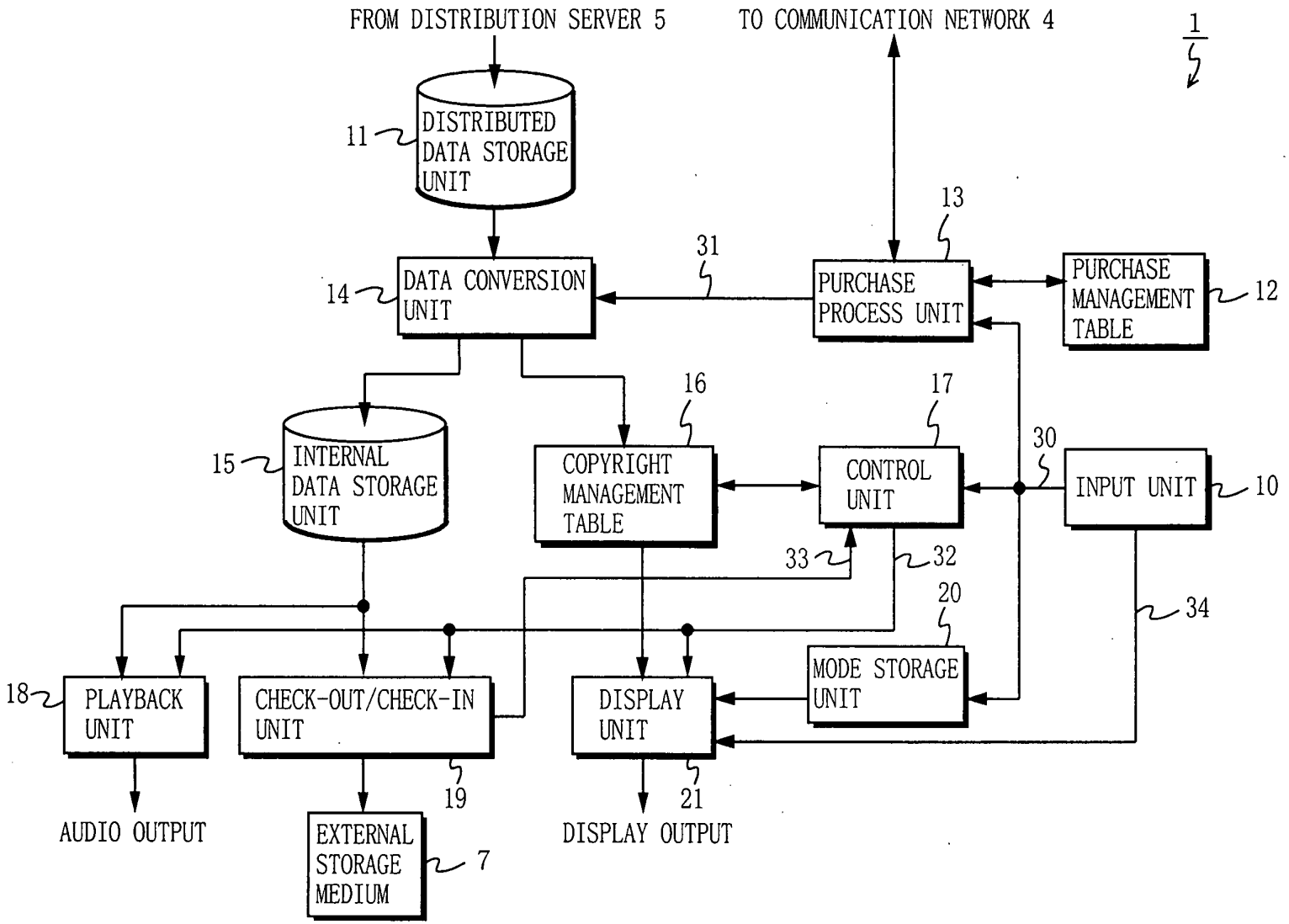

FROM DISTRIBUTION SERVER 5
TO COMMUNICATION NETWORK 4
1
11
DISTRIBUTED DATA STORAGE UNIT
13
31
14
DATA CONVERSION UNIT
PURCHASE PROCESS UNIT
PURCHASE MANAGEMENT TABLE
12
16
17
15
INTERNAL DATA STORAGE UNIT
COPYRIGHT MANAGEMENT TABLE
CONTROL UNIT
30
INPUT UNIT
10
33
32
20
34
18
PLAYBACK UNIT
CHECK-OUT/CHECK-IN UNIT
DISPLAY UNIT
MODE STORAGE UNIT
19
21
AUDIO OUTPUT
EXTERNAL STORAGE MEDIUM
7
DISPLAY OUTPUT

FIG. 2

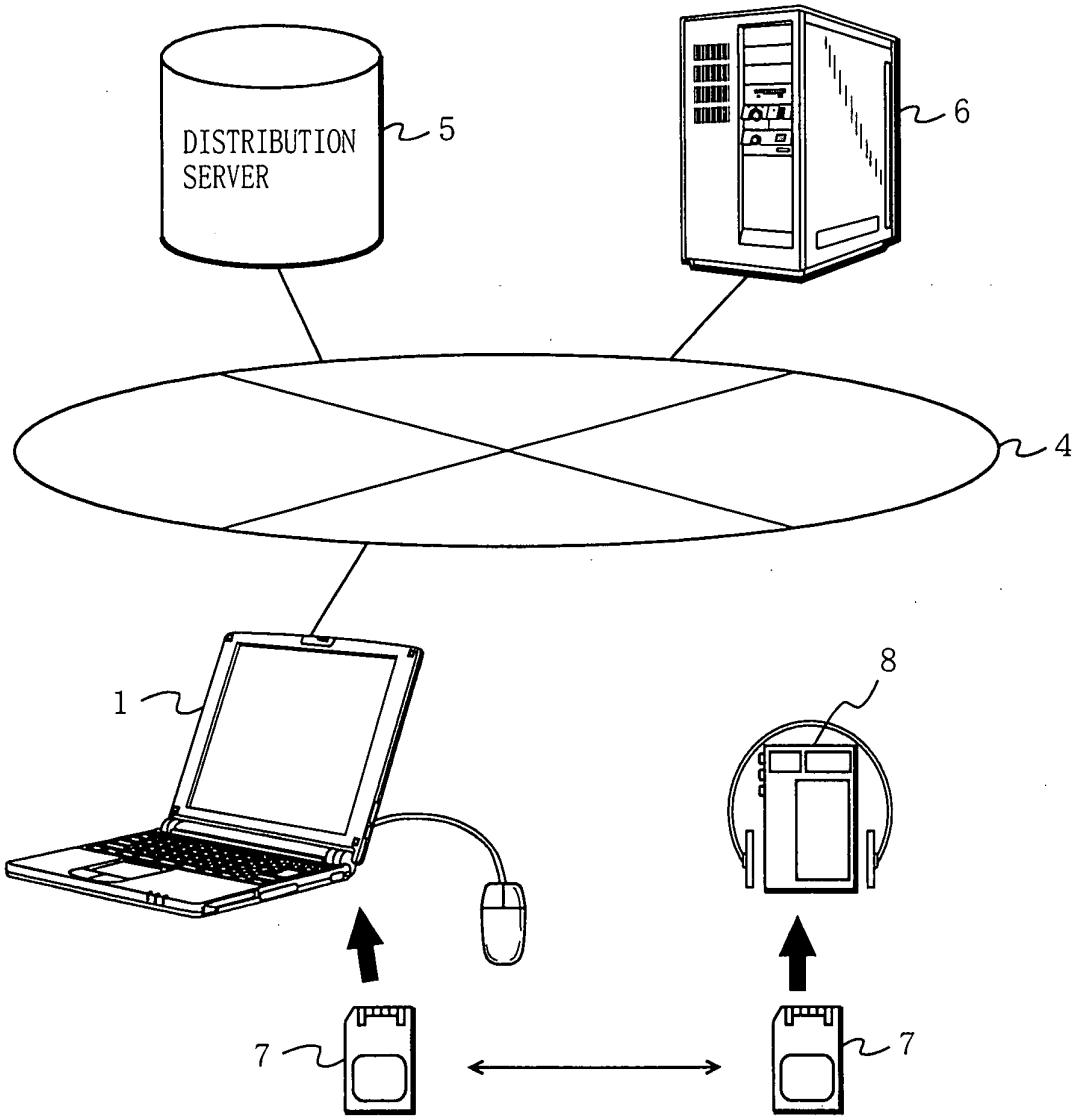


FIG. 3a

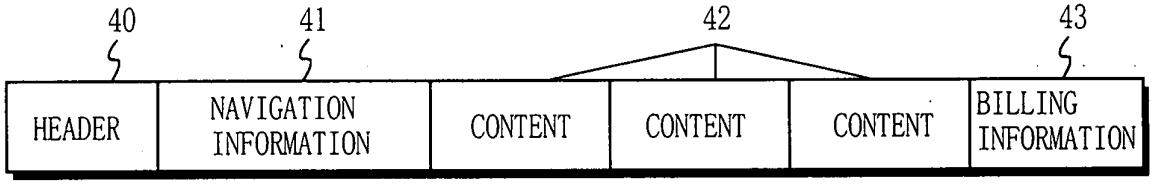


FIG. 3b

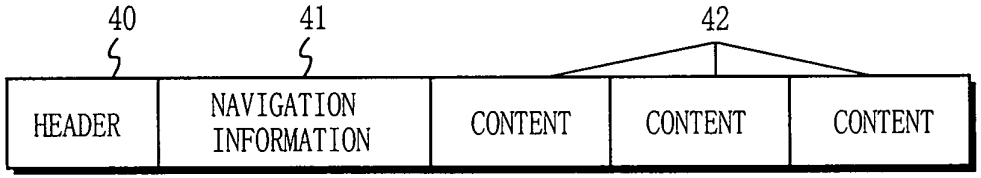


FIG. 3c

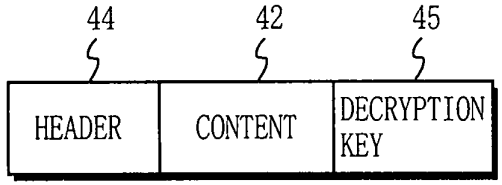


FIG. 4

50 PACKAGE IDENTIFIER	51 CONTENT IDENTIFIER	52 PURCHASE CONDITION
789456	120000001	PLAYBACK: 10 TIMES
987650	190000078	PLAYBACK: 30 DAYS
asdre78	190000435	FULL PURCHASE (3 CHECK-OUTS)
987650	190005541	TEST LISTENING: 10 SECONDS
789457	190004000	NONE

FIG. 5

(a)

50 PACKAGE IDENTIFIER	51 CONTENT IDENTIFIER	52 PURCHASE CONDITION	53 DATE OF RIGHT PURCHASING	54 DECRYPTION KEY
789456	120000001	PLAYBACK: 10 TIMES	1999/8/11	xxxxxxxx
987650	190000078	PLAYBACK: 30 DAYS	1999/8/21	yyyyyyyy
asdre78	190000435	FULL PURCHASE (3 CHECK-OUTS)	1999/8/22	zzzzzzzz
987650	190005541	TEST LISTENING: 10 SECONDS	1999/8/21	uuuuuuuu

(b)

55 NUMBER OF PLAYBACKS	56 NUMBER OF CHECK-OUTS	57 CHECK-OUT DESTINATION INFORMATION		
5	0	—	—	—
0	0	—	—	—
0	2	SD54862(SD Card No. 1)	DVD78951(Children Music Collection)	—
0	0	—	—	—

FIG. 6

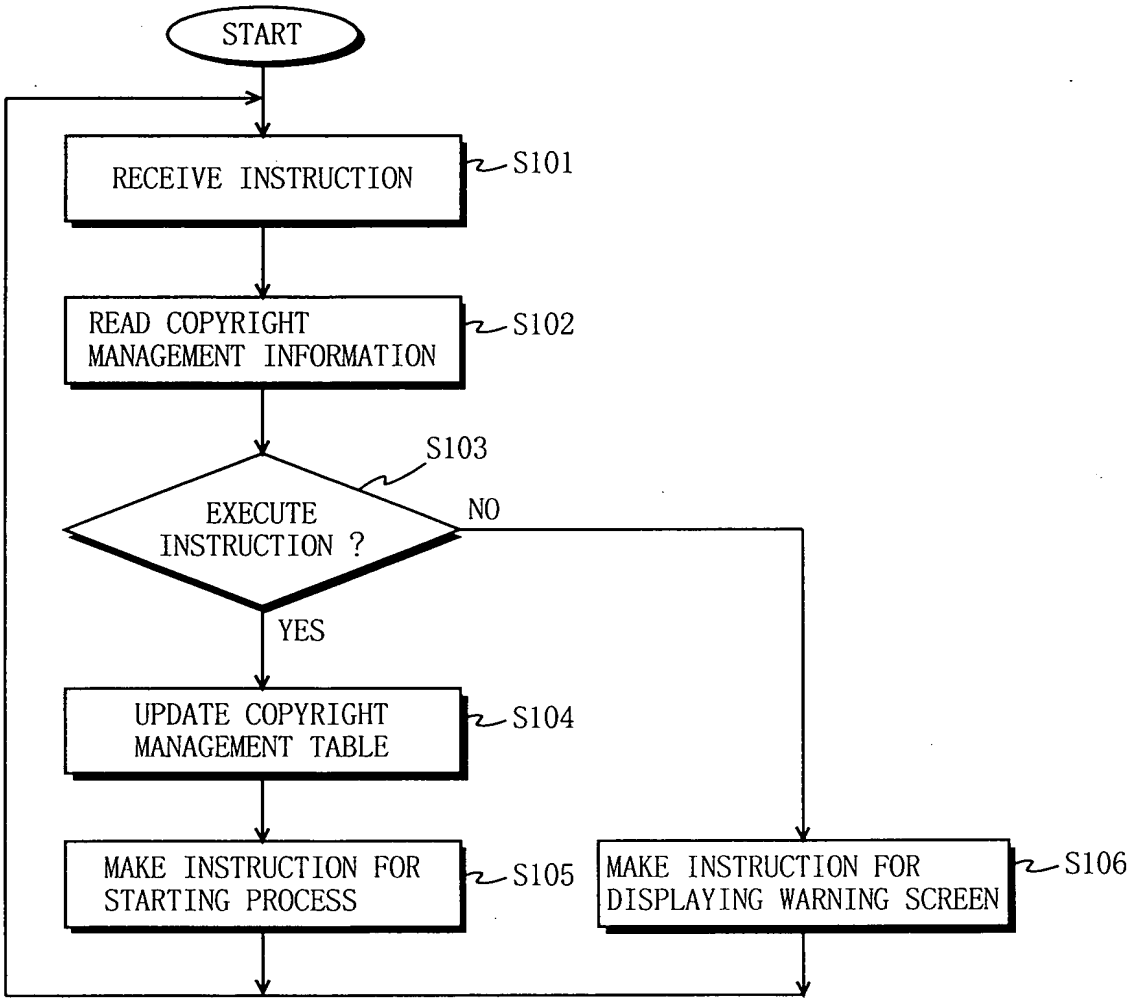
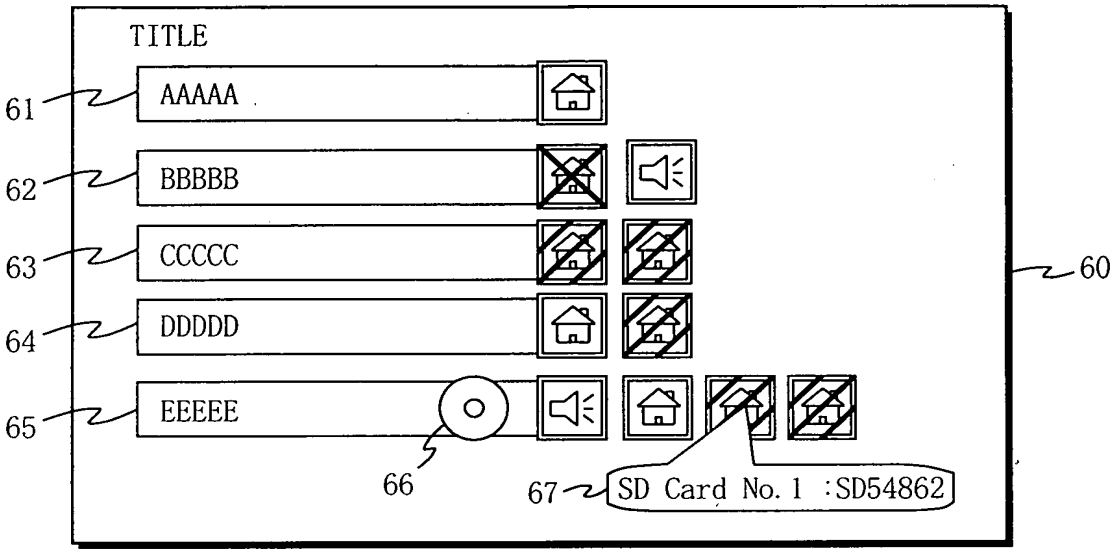

START
RECEIVE INSTRUCTION
S101
READ COPYRIGHT MANAGEMENT INFORMATION
S102
S103
EXECUTE INSTRUCTION ?
NO
YES
UPDATE COPYRIGHT MANAGEMENT TABLE
S104
MAKE INSTRUCTION FOR STARTING PROCESS
S105
MAKE INSTRUCTION FOR DISPLAYING WARNING SCREEN
S106

FIG. 7


TITLE
AAAAA
BBBBB
CCCCC
DDDDD
EEEEE
61
62
63
64
65
60
66
67
SD Card No. 1 :SD54862

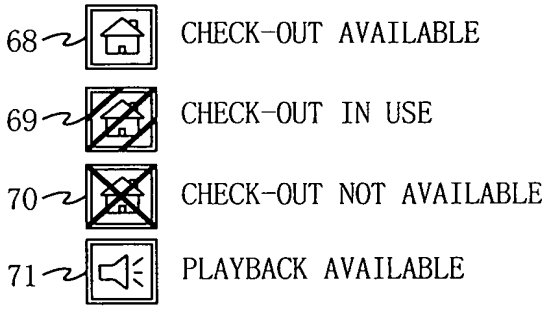

68
CHECK-OUT AVAILABLE
69
CHECK-OUT IN USE
70
CHECK-OUT NOT AVAILABLE
71
PLAYBACK AVAILABLE

FIG. 8

PROCESS MODE	DISPLAYED CONTENTS
PLAYBACK	·CONTENT WITH PLAYBACK RIGHT THAT SATISFIES PLAYBACK CONDITION OBTAINED ·RIPPED CONTENT WITH CHECK-OUT RIGHT
CHECK-OUT	·PURCHASED CONTENT THAT SATISFIES CHECK-OUT CONDITION ·RIPPED CONTENT THAT SATISFIES CHECK-OUT CONDITION
MOVE	·PURCHASED CONTENT THAT IS NOT CHECKED-OUT ·RIPPED CONTENT THAT IS NOT CHECKED-OUT

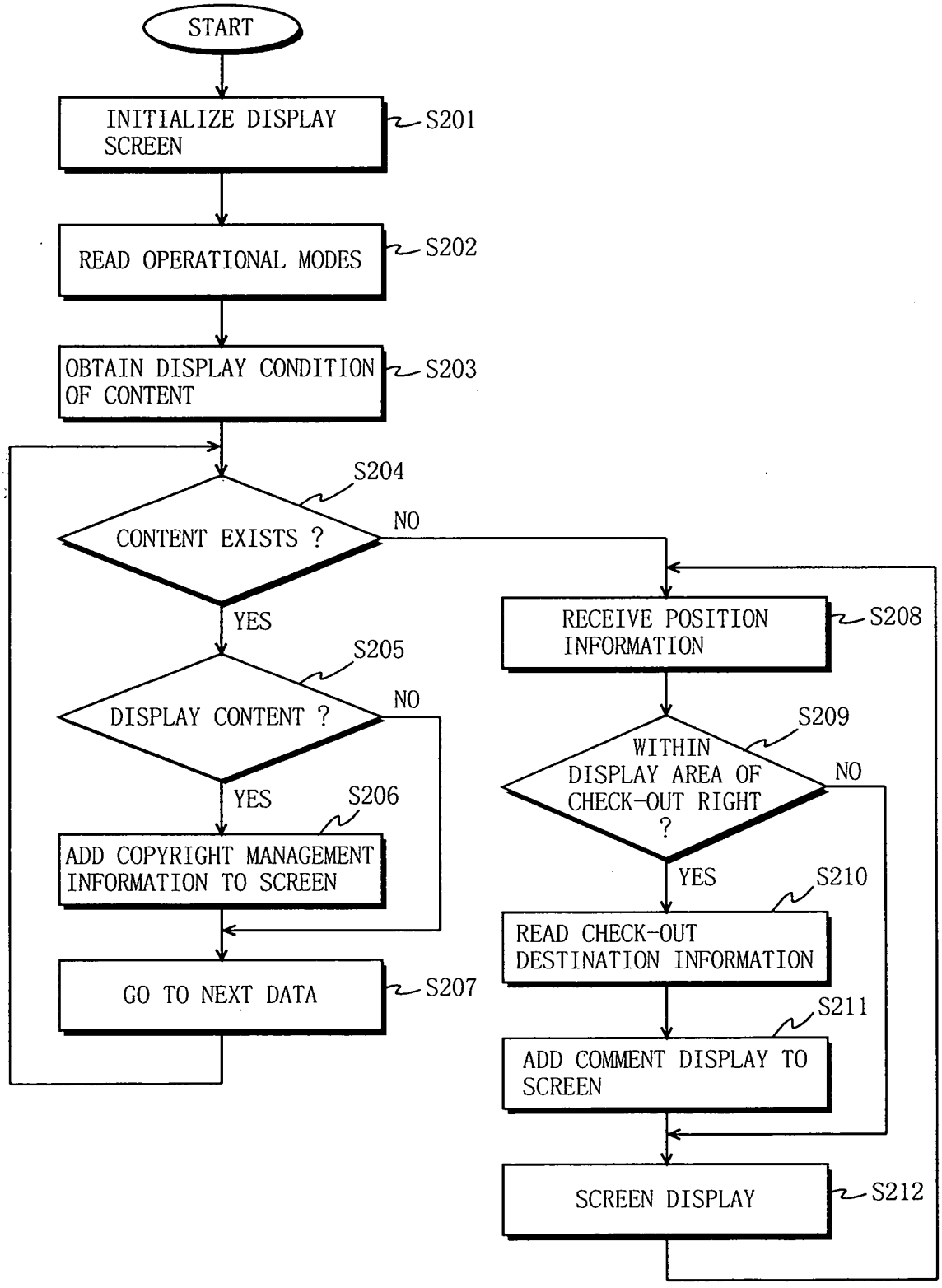
FIG. 9

DISPLAY MODE	DISPLAY METHOD
MINIMUM DISPLAY	·DISPLAY TITLE AND PLAYBACK DURATION OF CONTENT THAT CAN BE PROCESSED
SELECTION-DISABLED DISPLAY	·DISPLAY TITLES AND PLAYBACK DURATIONS OF ALL CONTENTS ·DISPLAY CONTENT THAT CANNOT BE PROCESSED AS UNSELECTABLE
ICON DISPLAY	·DISPLAY TITLES AND PLAYBACK DURATIONS OF ALL CONTENTS ·DISPLAY PROCESS RIGHT WITH ICON
NORMAL DISPLAY	·DISPLAY COPYRIGHT MANAGEMENT INFORMATION FOR ALL CONTENTS IN TABLE FORM

FIG. 10

PROCESS MODE \ DISPLAY MODE	MINIMUM DISPLAY	SELECTION-DISABLED DISPLAY	ICON DISPLAY	NORMAL DISPLAY
PLAYBACK	·DISPLAY CONTENT THAT CAN BE PLAYED BACK AT THE MINIMUM	·DISPLAY ALL CONTENTS AT THE MINIMUM ·SELECTION-DISABLED DISPLAY IF CONTENT CANNOT BE PLAYED BACK	·DISPLAY ALL CONTENTS AT THE MINIMUM ·DISPLAY PROCESS RIGHT WITH ICON	·DISPLAY ALL CONTENTS IN TABLE FORM
CHECK-OUT	·DISPLAY CONTENT THAT CAN BE CHECKED OUT AT THE MINIMUM	·DISPLAY ALL CONTENTS AT THE MINIMUM ·SELECTION-DISABLED DISPLAY IF CONTENT CANNOT BE CHECKED OUT		
MOVE	·DISPLAY CONTENT THAT CAN BE MOVED AT THE MINIMUM	·DISPLAY ALL CONTENTS AT THE MINIMUM ·SELECTION-DISABLED DISPLAY IF CONTENT CANNOT BE MOVED		

FIG. 11


START
INITIALIZE DISPLAY SCREEN
S201
READ OPERATIONAL MODES
S202
OBTAIN DISPLAY CONDITION OF CONTENT
S203
S204
CONTENT EXISTS ?
NO
YES
S205
DISPLAY CONTENT ?
NO
YES
S206
ADD COPYRIGHT MANAGEMENT INFORMATION TO SCREEN
GO TO NEXT DATA
S207
RECEIVE POSITION INFORMATION
S208
S209
WITHIN DISPLAY AREA OF CHECK-OUT RIGHT ?
NO
YES
S210
READ CHECK-OUT DESTINATION INFORMATION
S211
ADD COMMENT DISPLAY TO SCREEN
SCREEN DISPLAY
S212

0016807 24T25960

FIG. 12

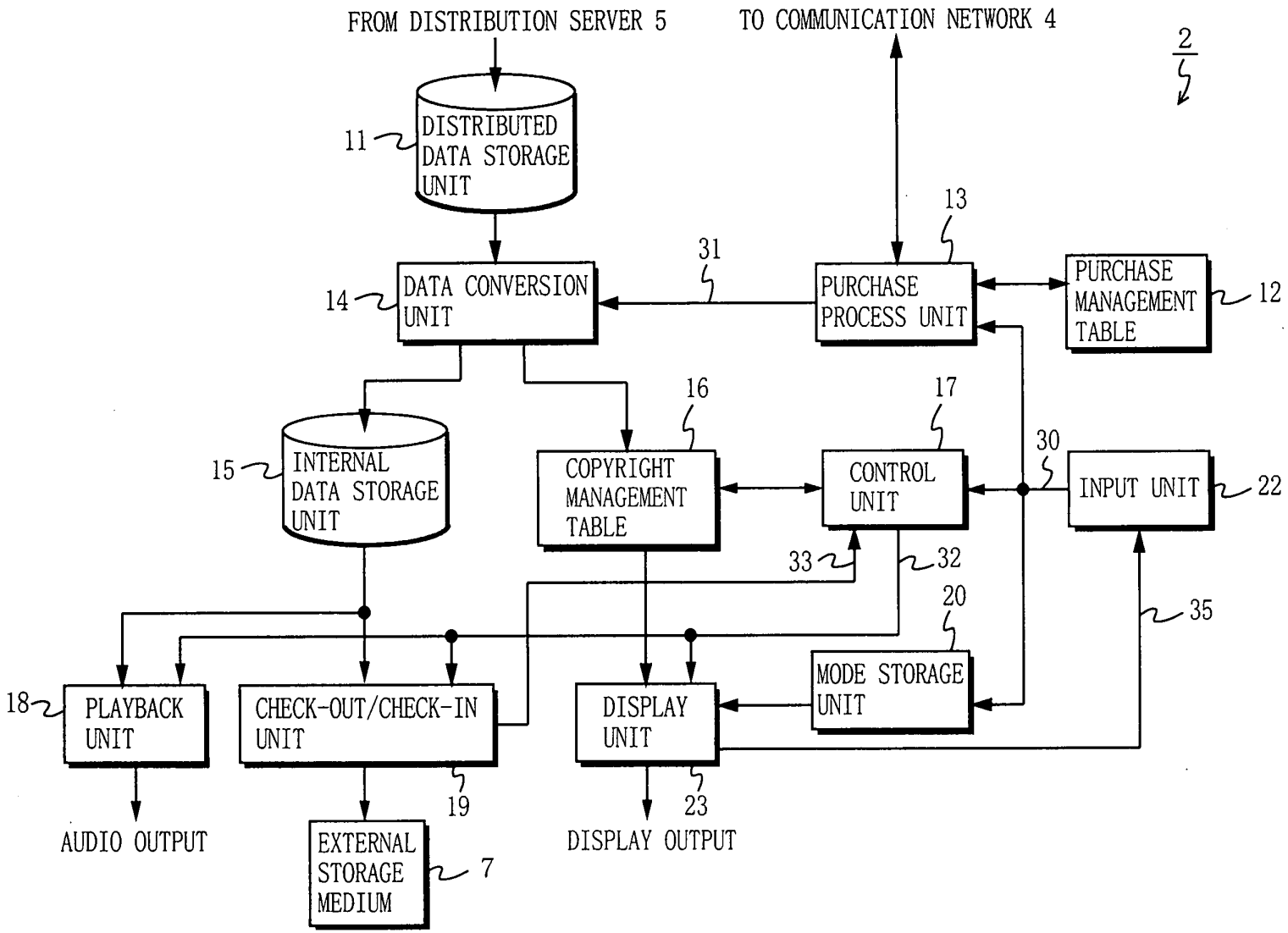


FIG. 13a

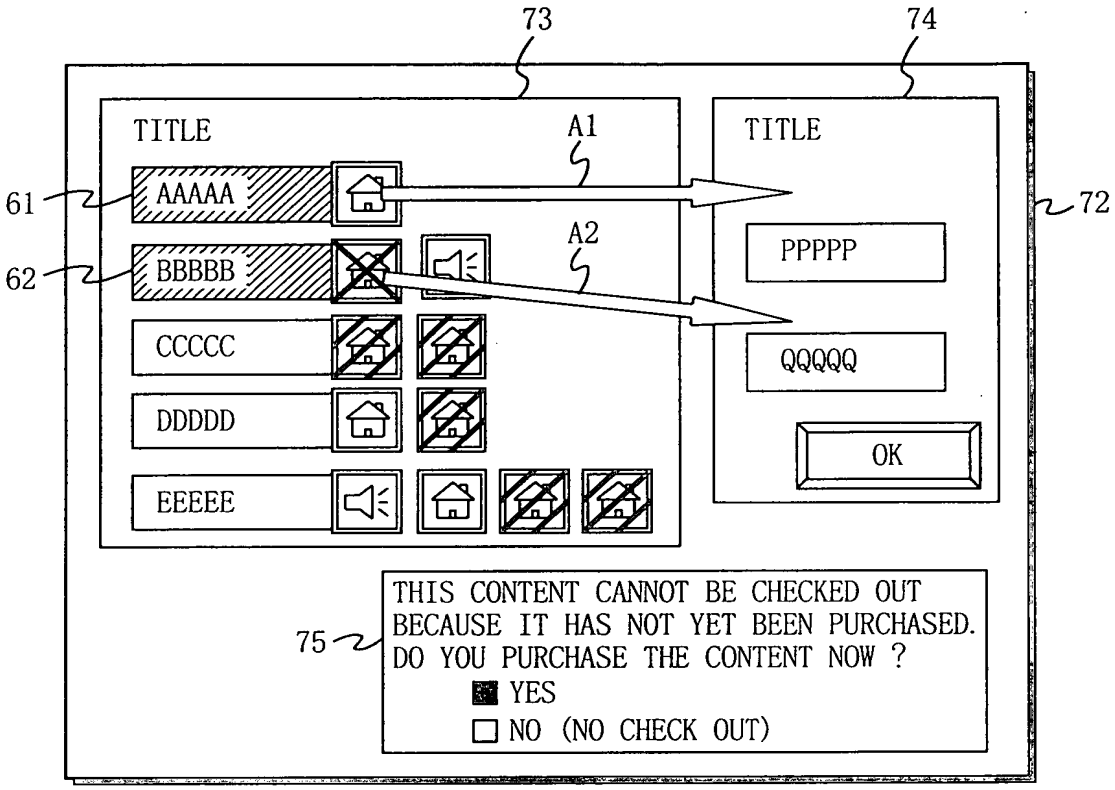


FIG. 13b

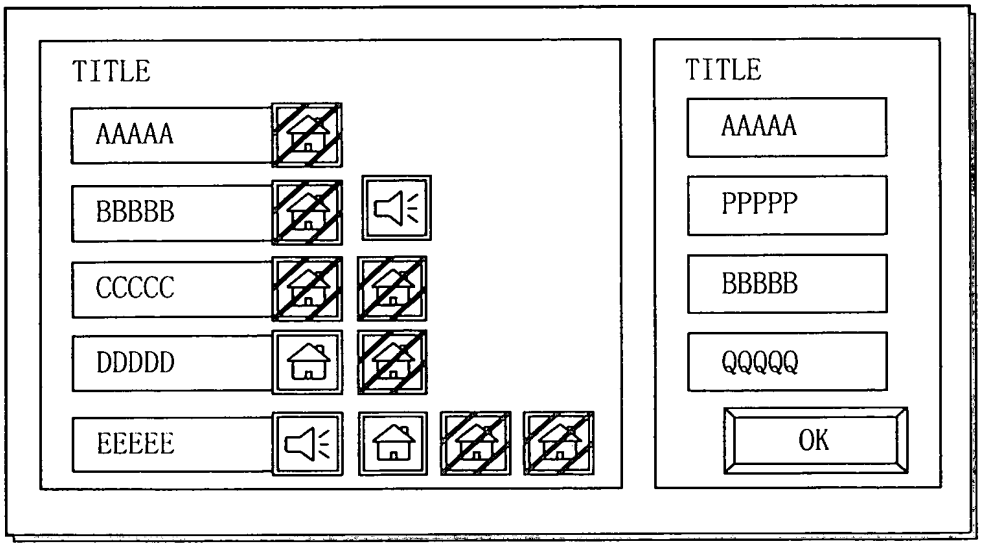


FIG. 14a

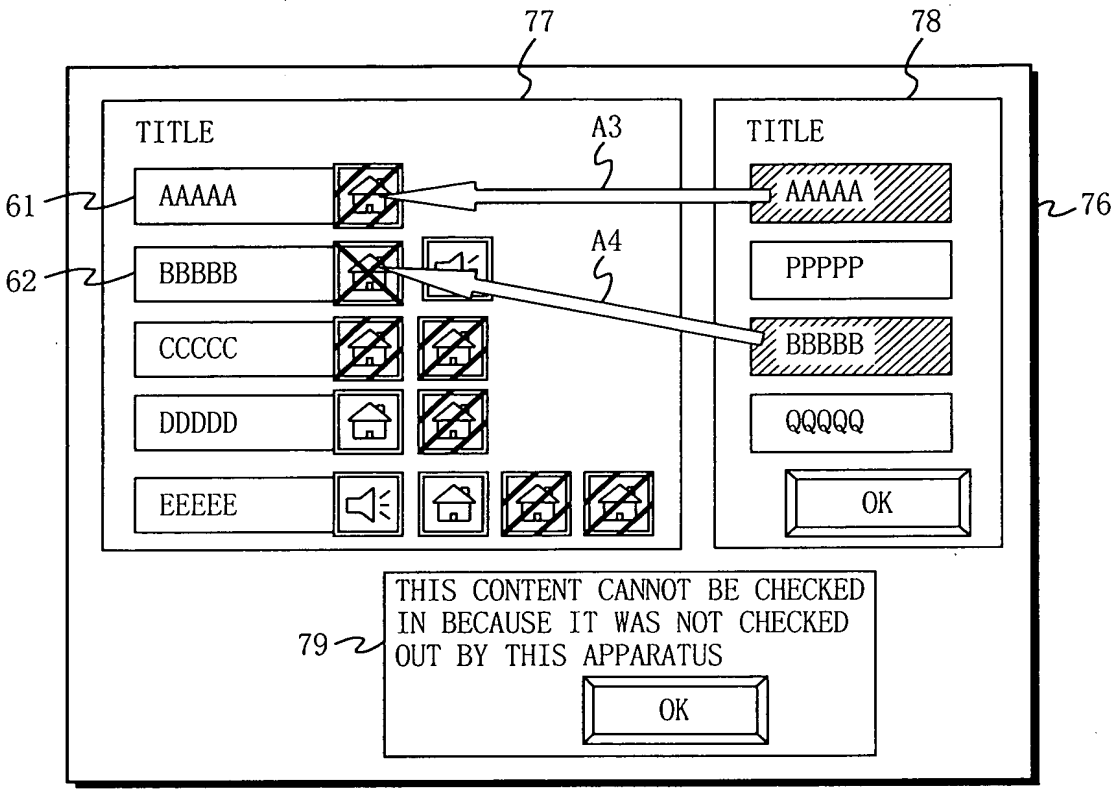


FIG. 14b

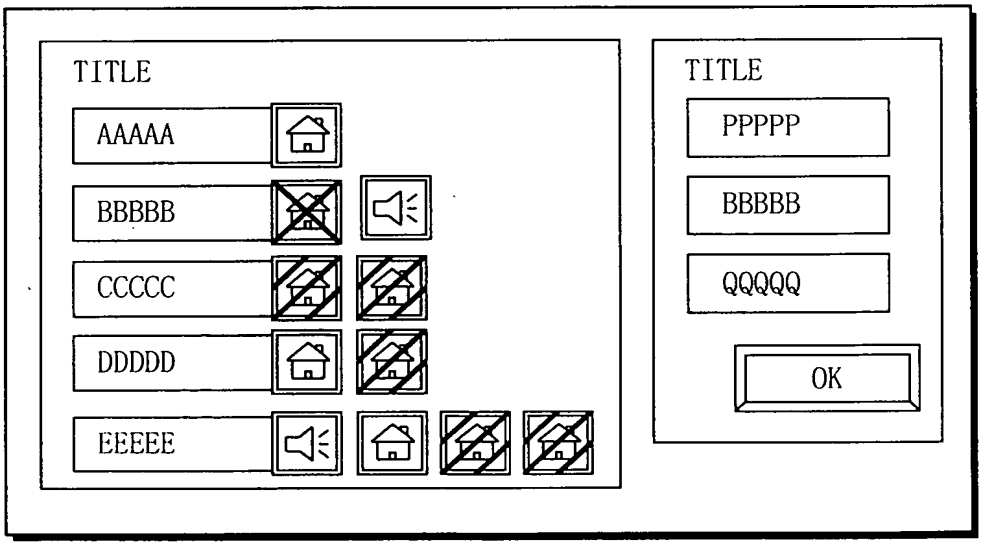


FIG. 15

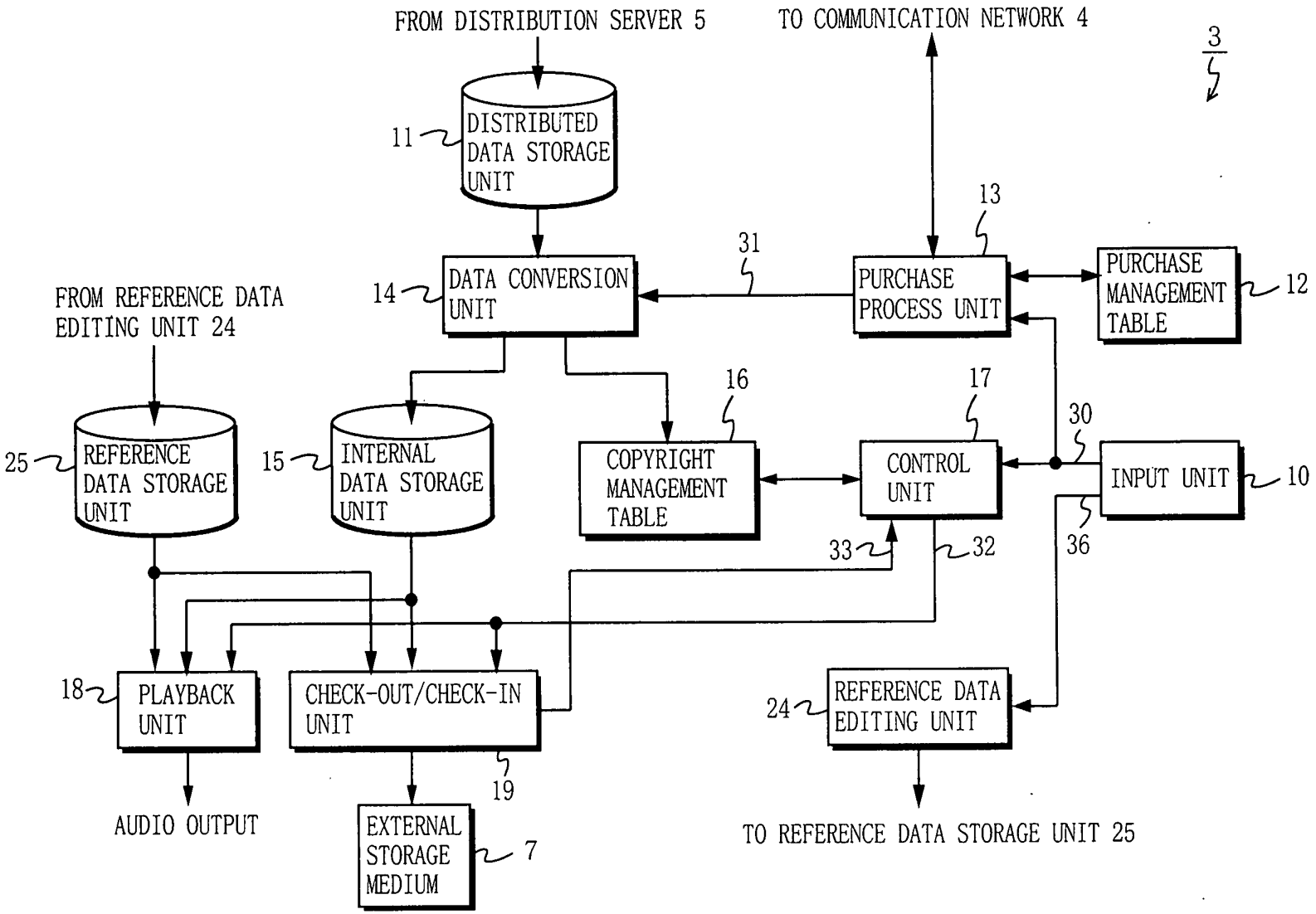

FROM DISTRIBUTION SERVER 5
TO COMMUNICATION NETWORK 4
3
11
DISTRIBUTED DATA STORAGE UNIT
13
31
14
DATA CONVERSION UNIT
PURCHASE PROCESS UNIT
PURCHASE MANAGEMENT TABLE
12
FROM REFERENCE DATA EDITING UNIT 24
16
17
30
25
REFERENCE DATA STORAGE UNIT
15
INTERNAL DATA STORAGE UNIT
COPYRIGHT MANAGEMENT TABLE
CONTROL UNIT
INPUT UNIT
10
33
32
36
18
PLAYBACK UNIT
CHECK-OUT/CHECK-IN UNIT
24
REFERENCE DATA EDITING UNIT
19
AUDIO OUTPUT
EXTERNAL STORAGE MEDIUM
7
TO REFERENCE DATA STORAGE UNIT 25

FIG. 16a

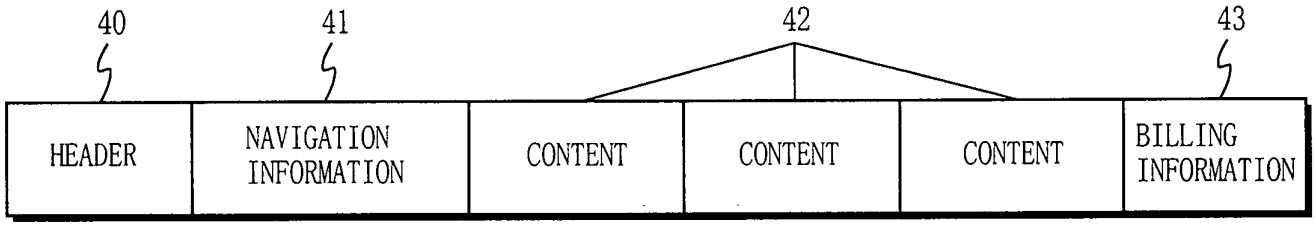


FIG. 16b

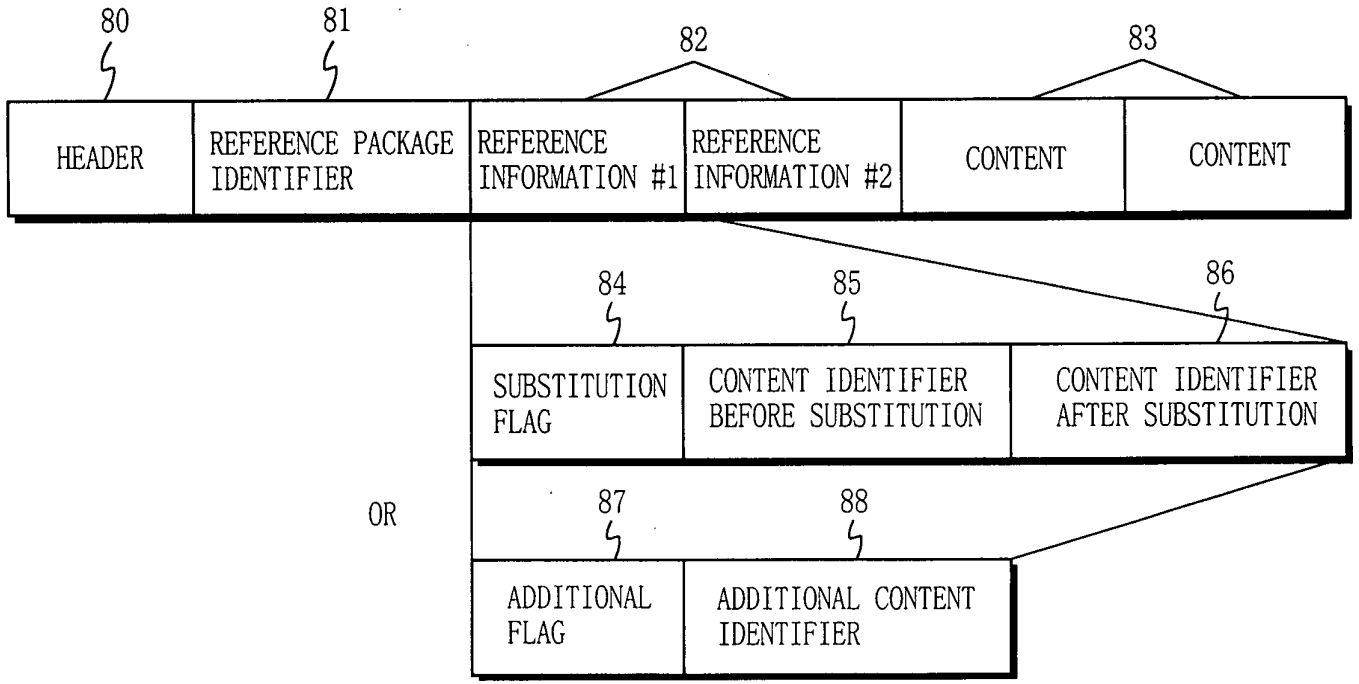


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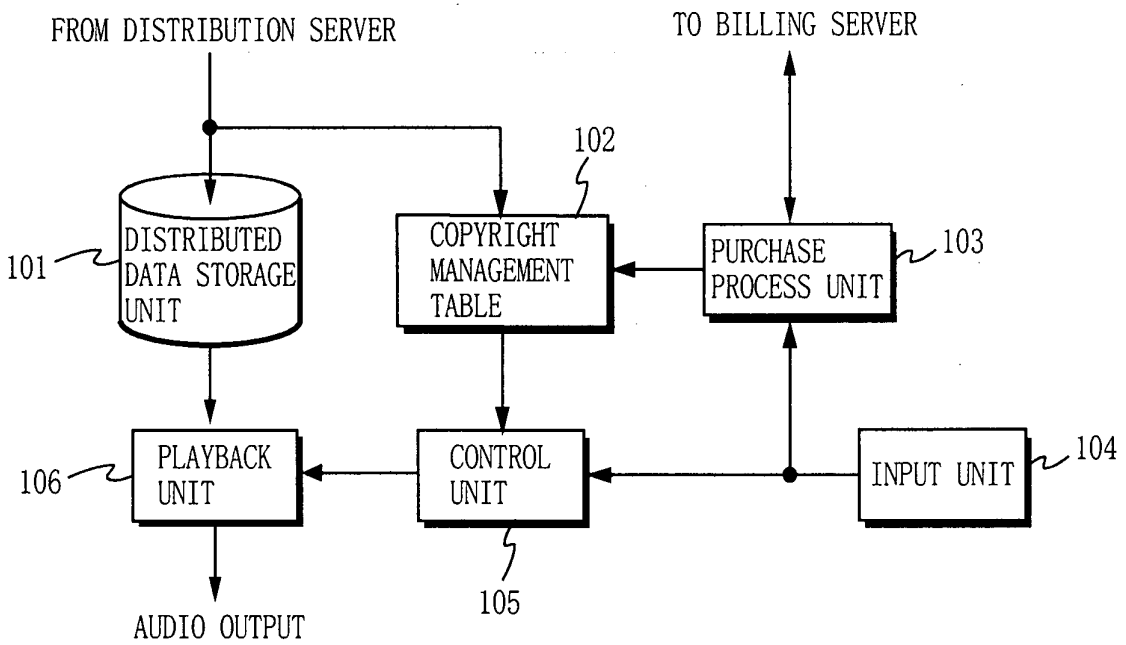
FIG. 17 PRIOR ART



0076807 A1 25960

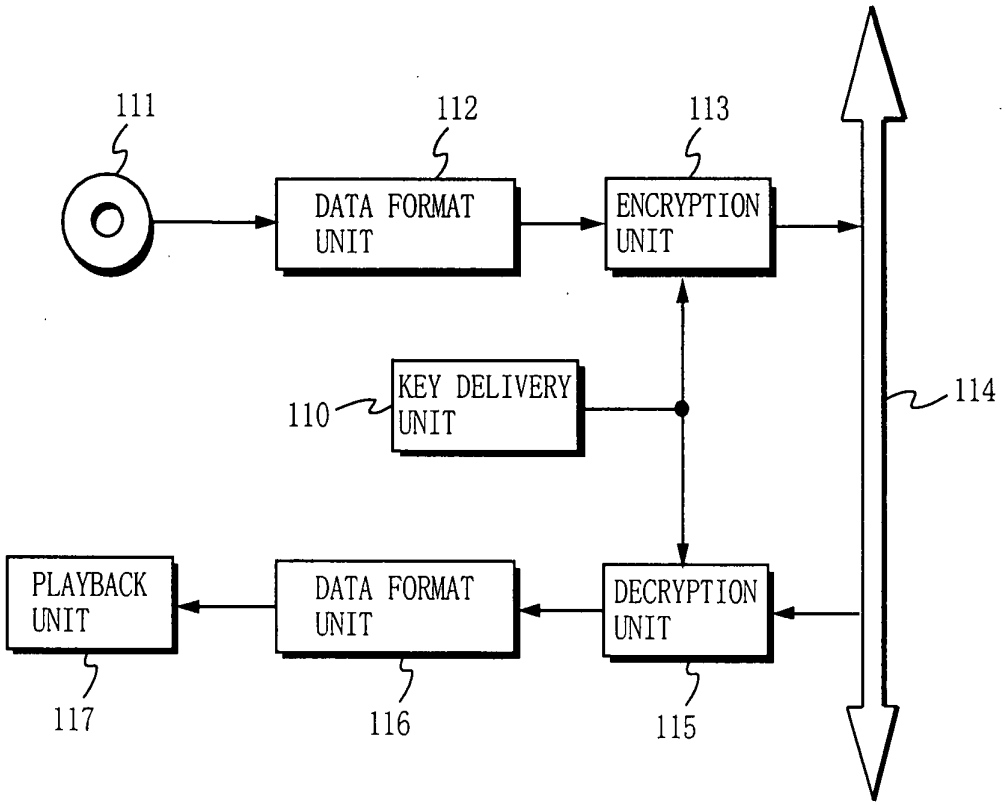



FIG. 18 PRIOR ART